

What is claimed is:

1. An amorphous metal alloy article having an articulated topographical definition.
2. An amorphous metal alloy article according to claim 1 which comprises a plurality of articulated topographical definitions.
3. An amorphous metal alloy article according to claim 1 which comprises a plurality of geometrically repeating articulated topographical definitions.
4. An amorphous metal alloy article having an articulated topographical definition wherein the amorphous metal alloy has a composition which may be represented by the formula:



wherein:

M is a metal selected from one or more of the group consisting of Fe, Ni, Co, V and Cr;

Y represents one or more elements from the group consisting of P, B and C;

k represents atomic percent, and has a value of from about 70 – 85;

p represents atomic percent, and has a value of about 15 – 30;

5. An amorphous metal alloy article having an articulated topographical definition wherein the amorphous metal alloy has a composition which may be represented by the formula:



wherein:

M is a metal selected from one or more of the group consisting of Fe, Ni, Co, V and Cr;

- . . . . .
- Y represents one or more elements from the group consisting of P, B and C;
- Z is one or more elements selected from the group Al, Si, Sn, Ge, In, Sb or Be;
- 5      a represents atomic percent and has a value of from about 60 – 90;
- b represents atomic percent and has a value of from about 10 – 30;
- c represents atomic percent and has a value of from about 0.1 – 15;
- and, a+b+c = 100.
- 10     6. An abrasive article which comprises the amorphous metal alloy article having an articulated topographical definition according to claim 1.
- 15     7. An abrasive article which comprises the amorphous metal alloy article having a plurality of an articulated topographical definition according to claim 2.
8. A cutting article which comprises the amorphous metal alloy article having an articulated topographical definition according to claim 1.
- 20     9. A cutting article which comprises the amorphous metal alloy article having a plurality of an articulated topographical definition according to claim 2.
10. A amorphous metal alloy article having an articulated topographical definition according to claim 2.
- 25     11. An article which comprises a plurality of self-nesting amorphous metal alloy articles.
12. A wound transformer core according to claim 2.
- 30     13. A stacked transformer core according to claim 2.

14. A process for the manufacture of an amorphous metal alloy article having an articulated topographical definition which comprises the steps of:

heating the amorphous metal alloy article to an elevated temperature and subsequently stamping or otherwise deforming the heated amorphous metal alloy article in a die.

5 15. The process according to claim 14 wherein the die is preheated.

10 16. The process according to claim 14 wherein the die is a roller die or a stamping die.

15 17. The process according to claim 14 wherein at last part of the articulated topographical definitions are selectively crystallized.

18. The process according to claim 14 wherein at last part of the articulated topographical definitions are ground to remove a part of the articulated topographical definitions.

20 19. The process according to claim 14 wherein an abrasive material is adhered to at least the articulated topographical definitions of the amorphous metal alloy article.

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